



## Titre du document / Document title

Antihypertensive effect of green coffee bean extract on mildly hypertensive subjects

## Auteur(s) / Author(s)

KOZUMA Kazuya ; TSUCHIYA Shigemi ; KOHORI Jun ; HASE Tadashi ; TOKIMITSU Ichiro ;

## Résumé / Abstract

A water-soluble green coffee bean extract (GCE) has been shown to be effective against hypertension in both spontaneously hypertensive rats and humans. This multicenter, randomized, double-blind, placebo-controlled, parallel group study evaluated the dose-response relationship of GCE in 117 male volunteers with mild hypertension. Subjects were randomized into four groups: a placebo and three drug groups that received 46 mg, 93 mg, or 185 mg of GCE once a day. After 28 days, systolic blood pressure (SBP) in the placebo, 46 mg, 93 mg, and 185 mg groups was reduced by  $-1.3' \pm 3.0$  mmHg,  $-3.2' \pm 4.6$  mmHg,  $-4.7' \pm 4.5$  mmHg, and  $-5.6' \pm 4.2$  mmHg from the baseline, respectively. The decreases in SBP in the 93 mg group ( $p < 0.05$ ) and the 185 mg group ( $p < 0.01$ ) were statistically significant compared with the placebo group. Diastolic blood pressure (DBP) in the placebo, 46 mg, 93 mg, and 185 mg groups was reduced by  $-0.8' \pm 3.1$  mmHg,  $-2.9' \pm 2.9$  mmHg,  $-3.2' \pm 3.2$  mmHg, and  $-3.9' \pm 2.8$  mmHg from the baseline, respectively, and significant effects were observed in the 93 mg group ( $p < 0.05$ ) and the 185 mg group ( $p < 0.01$ ) compared with the placebo group. Both blood pressures were significantly reduced in a dose-related manner by GCE ( $p < 0.001$ ). Adverse effects caused by GCE were not observed. The results suggested that daily use of GCE has a blood pressure-lowering effect in patients with mild hypertension.

## Revue / Journal Title

Hypertension research ISSN 0916-9636

## Source / Source

2005, vol. 28, n°9, pp. 711-718 [8 page(s) (article)]

## Langue / Language

Anglais

## Editeur / Publisher

Japanese Society of Hypertension, Tokyo, JAPON (1992) (Revue)

## Mots-clés d'auteur / Author Keywords

hypertension ; chlorogenic acid ; dose-response ; human ; randomized controlled study ;

## Localisation / Location

INIST-CNRS, Cote INIST : 27694, 35400013445847.0020

Copyright 2008 INIST-CNRS. All rights reserved

Toute reproduction ou diffusion même partielle, par quelque procédé ou sur tout support que ce soit, ne pourra être faite sans l'accord préalable écrit de l'INIST-CNRS.

No part of these records may be reproduced or distributed, in any form or by any means, without the prior written permission of INIST-CNRS.

N° notice refdoc (u4) : 17326217

Rechercher dans CAT.INIST / Search in CAT.INIST

Google Custom Search